

Title (en)

Coupling structure of heat transfer plate and gasket of plate type heat exchanger

Title (de)

Vorrichtung zur Verbindung einer Dichtung mit einer Wärmeaustauschplatte in einem Plattenwärmetauscher

Title (fr)

Dispositif de liaison d'un joint avec une plaque de transfert de chaleur pour échangeur de chaleur à plaques

Publication

EP 1722184 A2 20061115 (EN)

Application

EP 05107784 A 20050824

Priority

KR 20050038306 A 20050509

Abstract (en)

Coupling structure of a heat transfer plate (10) and a gasket (20) for use in a plate type heat exchanger, wherein a gasket groove (13), formed along the outer circumference of respective fluid passage holes and the heat transfer plate (10), and the gasket (20) to be inserted into the gasket groove (13) have a toothed engagement coupling structure (14,21,22). With this configuration, the coupling structure of the heat transfer plate and the gasket is remarkably simplified, while the contact area between the heat transfer plate and the gasket and the resulting coupling strength can be greatly improved. Thus, pressure resistance of the plate type heat exchanger can be greatly improved, allowing the plate type heat exchanger to be easily applied to high temperature and pressure heat exchanger facilities.

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

RU2617264C2; CN102393155A; EP3835702A1; EP3032208A1; CN105698585A; CN104034196A; EP4389934A1; CN106323076A; EP3825637A1; JP2022551334A; US11976889B2; US11639829B2; WO2016046119A1; WO2021115714A1; WO2021099048A1; US11320207B2; EP3489606A1; CN109813160A; CN114636331A; EP3001131A1; CN106716043A; EP3660436A1; CN111220006A; JP2021528625A; US9217608B2; US9903668B2; WO2024133654A1

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